

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A series device of protection against a heating of a parallel protection element of an equipment of a telephone line, including:

a bidirectional cut-off element of normally on state, in series with the parallel protection element;

a temperature detection element adjacent to the parallel protection element; and

a switching element adapted to turning off the cut-off element when the temperature of the parallel protective element detected by the detection element exceeds a predetermined threshold.

2. (Original) The device of claim 1, wherein the switching element is a normally-off bidirectional element.

3. (Original) The protection device of claim 1, wherein said cut-off element includes two cut-off thyristors assembled in antiparallel and each having a resistor connected between its anode and cathode gates.

4. (Original) The protection device of claim 3, wherein said switching element includes two control thyristors, respectively a cathode-gate thyristor and an anode-gate thyristor, which are respectively associated with the anode and cathode gates of the cut-off thyristors.

5. (Original) The protection device of claim 4, wherein each control thyristor of the switching element has its gate connected to a midpoint of a resistive dividing bridge having one of its resistive elements formed of a positive coefficient thermistor.

6. (Original) The protection device of claim 4, wherein each control thyristor of the switching element has its gate connected to a midpoint of a resistive dividing bridge via respective series connection of diodes.

7. (Original) The protection device of claim 4, wherein a diode is interposed between the anode-gate control thyristor and the cathode gate of the cut-off thyristor with which it is associated.

8. (Original) The protection device of claim 1, further including a single semiconductor substrate having the bidirectional cut-off element, the temperature detection element, and the switching element integral formed thereon.

9. (Original) The protection device of claim 1, wherein the temperature detection element detects the temperature of the parallel protection element.

10. (Original) The protection device of claim 1, wherein the temperature detection element is integrated in the same semiconductor substrate as the parallel protection element.

11. (Currently Amended) A protection circuit comprising:  
a ~~parallel~~-protection element;  
a cut-off circuit in a normally on state, in series with a main power to the ~~parallel~~ protection element;  
a temperature detection element positioned adjacent to the ~~parallel~~-protection element; and  
a switching element coupled to the temperature detection element ~~and receiving to~~ receive a signal when a temperature sensed by the temperature detection circuit is above a threshold value and coupled to output a signal to the cut-off circuit.

12. (Currently Amended) A method of protecting equipment comprising:  
supplying power to the equipment via a cut-off element;  
placing a voltage on the equipment;  
placing the same voltage on a ~~load circuit~~parallel protection elementthat is on the  
equipment;  
sensing the temperature of the ~~load circuit~~parallel protection element; and  
shutting off the power to the main equipment when the temperature of the ~~load~~  
~~circuit~~parallel protection element exceeds a selected value.

13. (New) A series protection device comprising:  
a bidirectional cut-off element that is normally in an on state, the bidirectional  
cut-off element including two cut-off thyristors assembled in antiparallel, each having a resistor  
connected between its anode and cathode gates;  
a protection element in series with the bidirectional cut-off element;  
a temperature detection element adjacent to the parallel protection element; and  
a switching element adapted to turning off the cut-off element when the  
temperature of the protection element as detected by the temperature detection element exceeds a  
predetermined threshold, the switching element including two control thyristors, respectively a  
cathode-gate thyristor and an anode-gate thyristor which are respectively associated with the  
anode and cathode-gates of the cut-off thyristors and further including a diode positioned  
between the anode-gate control thyristor and the cathode-gate of the cut-off thyristor with which  
it is associated.

Application No. 09/863,811  
Reply to Office Action dated June 5, 2003

**Amendments to the Drawings:**

The attached sheet of drawings includes changes to Figure 7.

Attachment: 1 Replacement Sheet